

Figure 1

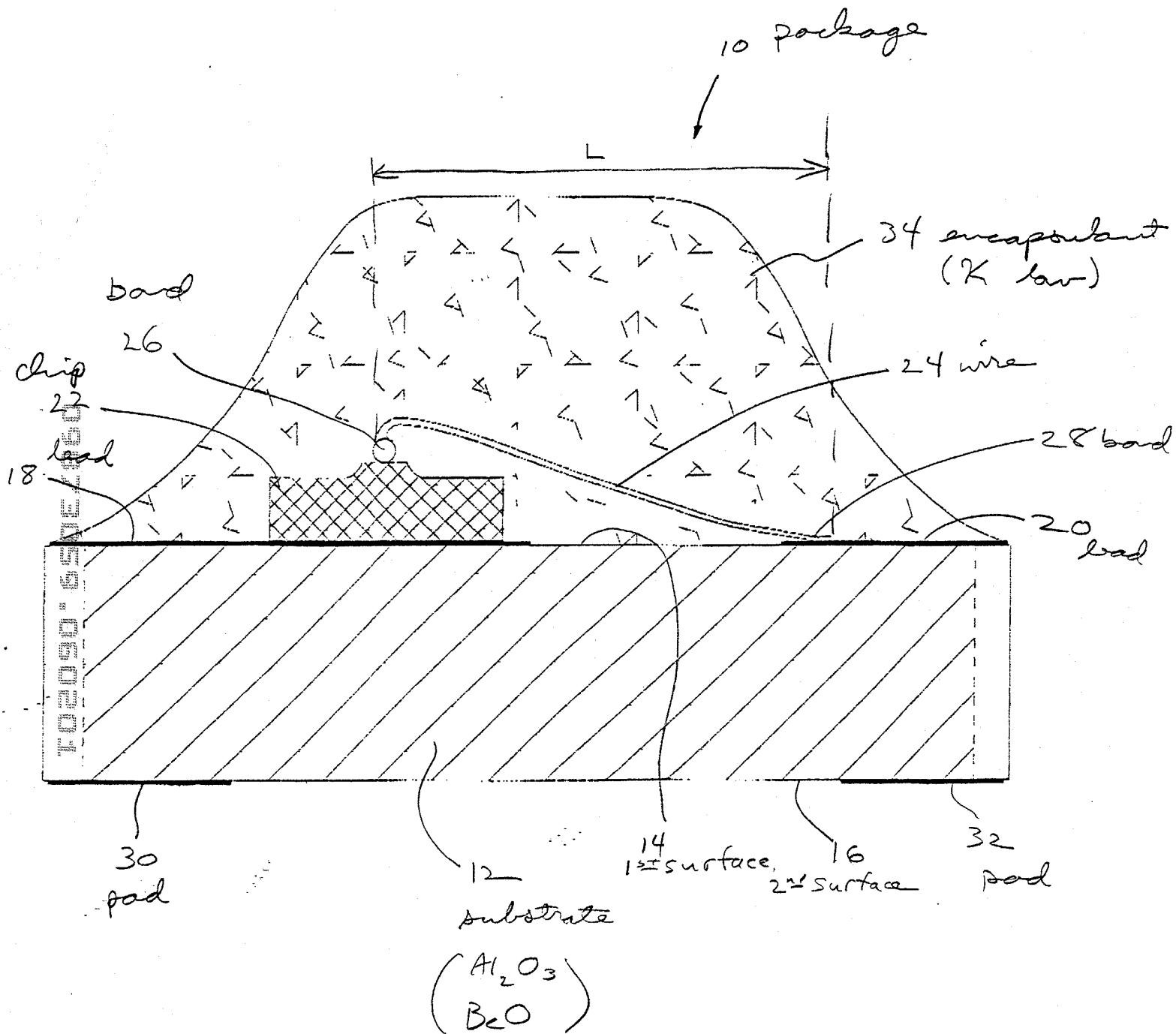


Fig. 2 Top

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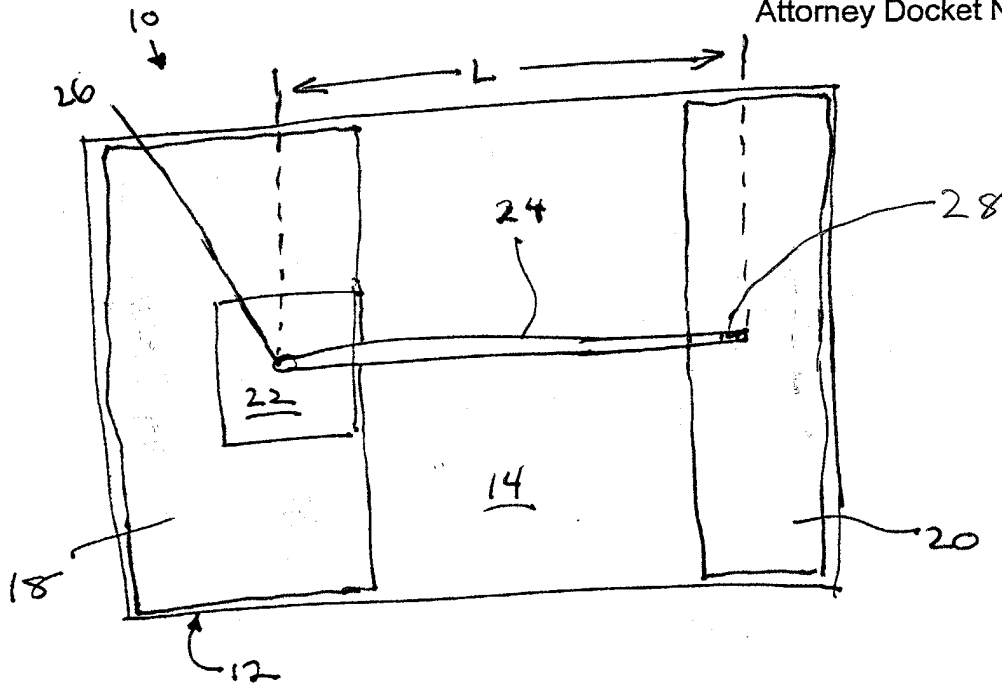


Fig. 3 bottom

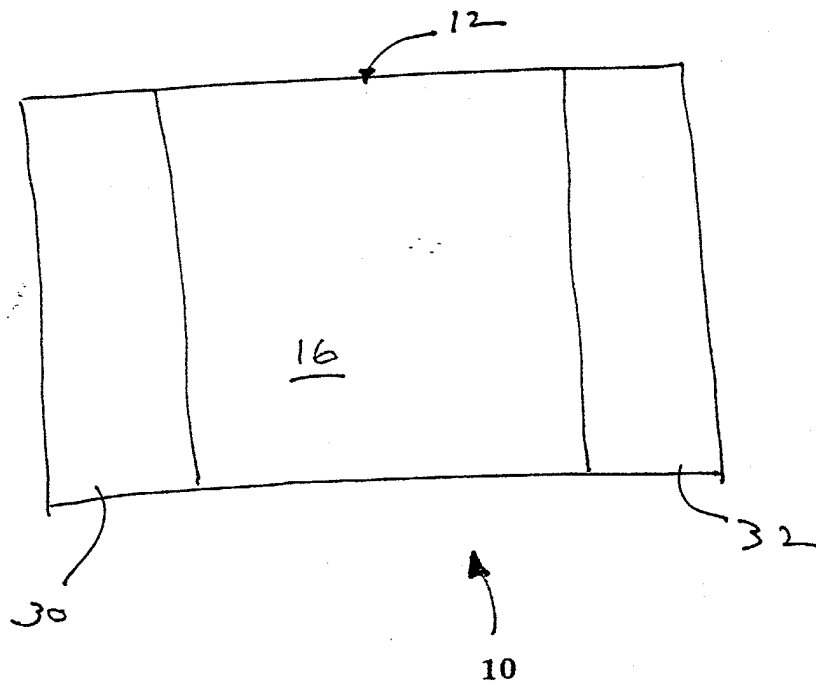
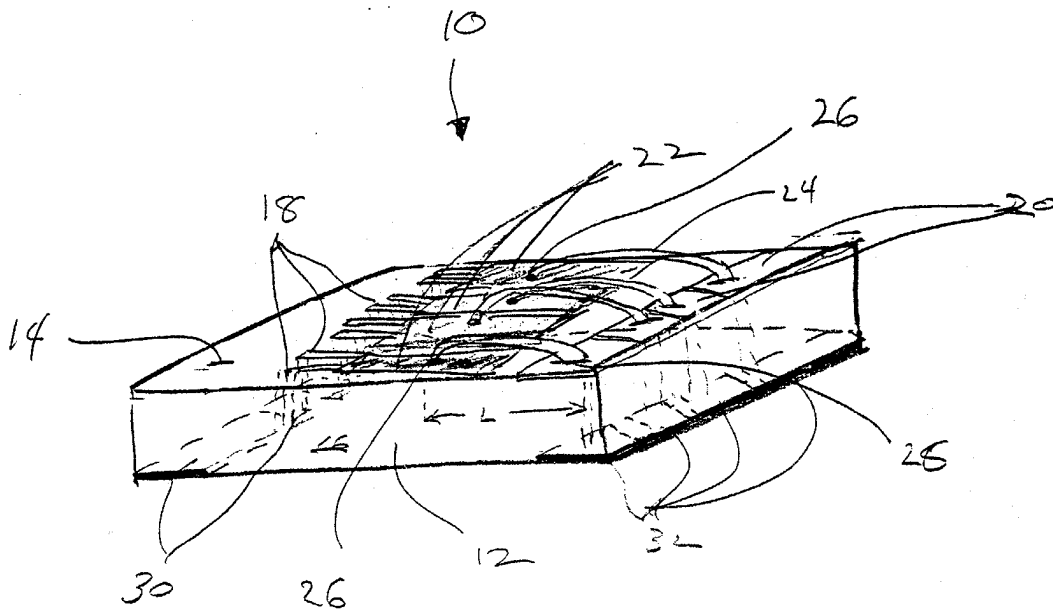


Fig. 4

top perspective view showing
multiple chip (22) implementation



09873059.060204

Parameter	Value	Unit
Temperature	25.0	°C
Pressure	1.0	atm
Concentration	0.1	M
Time	10.0	min
Volume	1.0	L
Flow rate	1.0	L/min
Wavelength	254	nm
Path length	1.0	cm
Refractive index	1.33	
Viscosity	0.01	P
Density	1.0	g/cm ³
Surface tension	0.072	N/m
Electrical conductivity	0.1	S/cm
Dielectric constant	80	
Thermal conductivity	0.6	W/mK
Heat capacity	4.2	J/gK
Enthalpy of fusion	6.0	kJ/mol
Enthalpy of vaporization	40.7	kJ/mol
Entropy of fusion	22.0	J/molK
Entropy of vaporization	109.0	J/molK
Free energy of fusion	-2.3	kJ/mol
Free energy of vaporization	-37.1	kJ/mol
Equilibrium constant	1.0	
Reaction rate	1.0	mol/Ls
Activation energy	50.0	kJ/mol
Pre-exponential factor	1.0	mol/Ls
Order of reaction	1.0	
Half-life	10.0	min
Stoichiometric coefficient	1.0	
Equilibrium constant	1.0	
Reaction rate	1.0	mol/Ls
Activation energy	50.0	kJ/mol
Pre-exponential factor	1.0	mol/Ls
Order of reaction	1.0	
Half-life	10.0	min
Stoichiometric coefficient	1.0	

